We claim:

- 1 A method of using a printing plate, which comprises, in a first step, setting an image on the printing plate in an imaging machine, while holding the printing plate firmly on a magnetic cylinder of the imaging machine during the imaging process, and in a second step, printing in a printing machine with the printing plate having the image set in this manner.
- 2. The method according to claim 1, which includes, in the first step, attracting with the magnetic cylinder a magnetically attractable carrier layer of the printing plate, while setting the image on a printing layer applied to the carrier layer.
- 3. The method according to claim 1, which includes, in the second step, while printing with the printing plate, firmly holding the printing plate on a magnetic cylinder in the printing machine.
- 4. The method according to claim 1, which includes providing a flexographic printing plate as the printing plate.
- 5. An imaging machine for setting an image on a printing plate, comprising a magnetic cylinder for holding the printing plate firmly during the setting of an image thereon.

- 6. The imaging machine according to claim 5, wherein said magnetic cylinder has a register system for aligning the printing plate.
- 7. The imaging machine according to claim 5, wherein said magnetic cylinder has at least one clamping device for firmly clamping the printing plate.
- 8. The imaging machine according to claim 5, wherein said magnetic dylinder has at least one permanent magnet for attracting the printing plate.
- 9. The imaging machine according to claim 5, wherein the imaging machine is a plate-exposing machine.
- 10. The imaging machine according to claim 5, wherein the imaging machine is a plate-developing machine.
- 11. The imaging machine according to claim 5, wherein the imaging machine is a plate-engraving machine.
- 12. A printing machine having a magnetic cylinder for holding a printing plate, the magnetic cylinder comprising a register system for aligning the printing plate, and at least one clamping device for firmly clamping the printing plate.

- 18. The printing machine according to claim 12, wherein said register system comprises register pins for engaging in register cut-outs formed in the printing plate.
- 14. The printing machine according to claim 13, wherein said register cut-outs are formed in a dimensionally stable carrier layer of the printing plate, and a printing layer is permanently joined to said carrier layer.
- 15. The printing machine according to claim 12, wherein said clamping device has a clamping jaw for clamping one end of the printing plate.
- 16. The printing machine according to claim 12, wherein said magnetic cylinder is formed with a circular circumferential line, and the printing plate held by the magnetic cylinder extends partly bent over under said circular circumferential line of said magnetic cylinder.
- 17. A method of producing a flexographic printing plate, which comprises firmly joining to a carrier layer of the flexographic printing plate a printing layer having no image yet set thereon, and then setting an image on the printing layer.

- 18. The method according to claim 17, which includes, before joining the printing layer to the carrier layer, setting an image on a rear side of the printing layer, and curing it thereby and, after the printing layer has been joined to the carrier layer, setting an image on a front side of the printing layer.
- 19. The method according to claim 17, which includes, while setting an image on the flexographic printing plate, firmly holding the plate on a rotating cylinder (for example magnetic cylinder 8).
- 20. The method according to claim 19, which includes providing a magnetic cylinder as the rotating cylinder.
- 21. The method according to claim 19, which includes providing the cylinder as a constituent part of an imaging machine provided for setting an image digitally on the flexographic printing plate.
- 22. The method according to claim 17, which includes, before setting an image on the printing layer, forming register cut-outs in the carrier layer.

